

# EUROPEAN PATENT OFFICE

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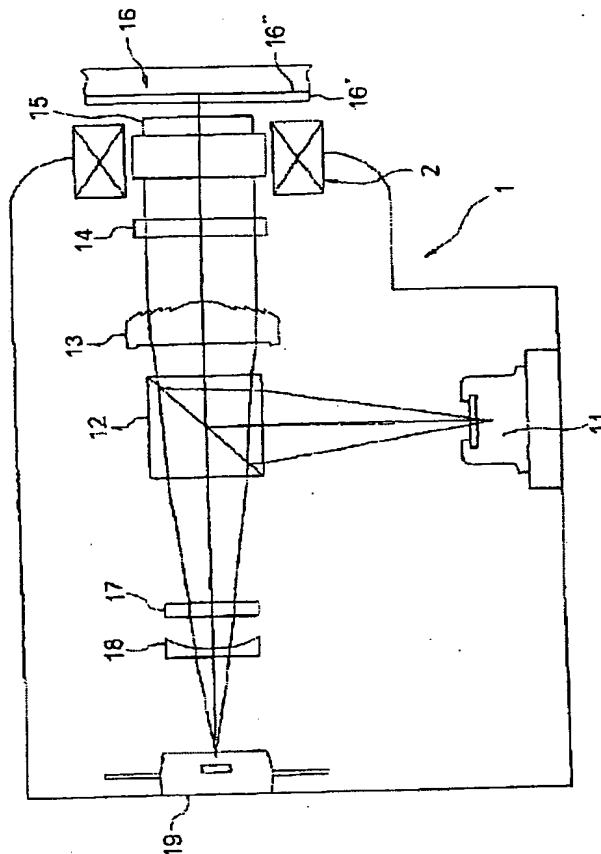
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APPLICANT : KONICA CORP;

INVENTOR : KOJIMA TOSHIYUKI;

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G11B 7/135

TITLE : OPTICAL SYSTEM FOR OPTICAL PICKUP, OPTICAL PICKUP DEVICE, COUPLING OPTICAL SYSTEM, LENS FOR COUPLING OPTICAL SYSTEM, AND RECORDING AND REPRODUCING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To provide an optical system for optical pickup which can correct an on-axis chromatic aberration with a relatively simple constitution and can be manufactured at a low cost even when a light source with inferior monochromaticity or a light source which abruptly varies in wavelength is used.

SOLUTION: The optical system for optical pickup is provided with a coupling optical system and an objective lens optical system and a diffracting surface is formed on a diffraction integrated type collimator 13 as the coupling optical system. The diffracting surface of the diffraction integrated type collimator 13 generates an on-axis chromatic aberration which is equal in size to and opposite in sign from that of an objective lens 15, so the luminous flux emitted by a semiconductor laser 11 is converged on an information recording surface 16" of an optical disk 16 nearly without on-axis chromatic aberration.

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